AFOP2 - Armoured Fiber Optic Patchcord

Description:

The OPTOKON Armoured Fiber Optic Patchcord enables easy handling and installation in a similar way to standard electrical cable. This most recent version of the Armoured Fiber Optic Patchcord differs from the traditional product due to the development of a micro diameter armoured flexible tube encased in stainless steel in order to prevent optical fiber from being easily destroyed or broken and also comes with the option of a flame resistant PVC coating. This unique design ensures an easier construction process therefore reducing the return loss and extending the life span of the optical fiber.

Features:

- Strong safeguard of optical fibers due to use of stainless steel material.
- High tensile strength, pressure resistant, re-twist resistance, rodent protected.
- Easy handling similar to electrical cable and easy installation
- Armoured only part with connector (see drawing)

Specifications:

Connectors[1]:	SC, FC, ST, LC, …		
Optical fiber type	Multimode	Single mode	
Polishing technology	**PC**	**UPC**	**APC**
Insertion Loss2 (IL)	≤ 0.5 dB	≤ 0.25 dB	≤ 0.50 dB
Return Loss (RL)	≥ 30 dB	≥ 50 dB	≥ 60 dB
Repeatability	≤ 0.2 dB	≤ 0.2 dB	≤ 0.2 dB

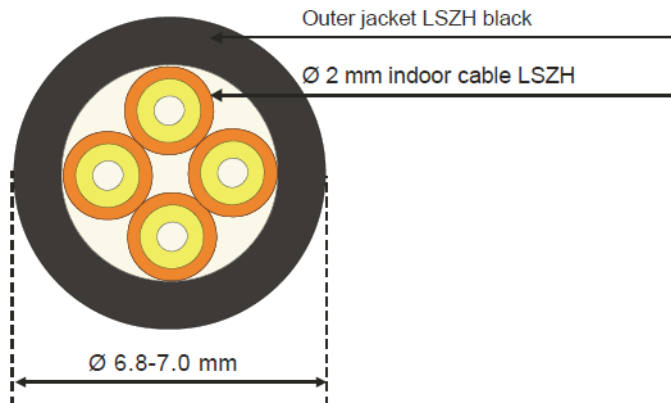| **Optical fiber:**	Single mode	Multimode
Cladding diameter (µm)	125±1	125±1
Max. attenuation (db/km)	1310nm ≤ 0.4 1550nm ≤ 0.3	850nm ≤ 3.5 1300nm ≤1.5

Cable jacket:	
Outer diameter (mm)	6.8 - 7.0
Weight (kg/km)	42
Allowable bending radius (mm)	15 x OD
Crush resistant (N/100 mm)	long term: 200 short term: 400
Material	LSZH
Operational temperature (°C)	-20 to +60

Note: 1) other type on request
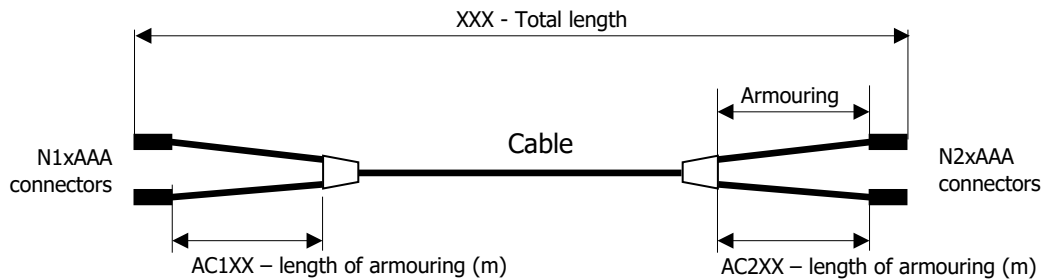2) premium IL ≤ 0.10 dB – on demand

Cable design:

Breakout cable 4x 2.0 LSZH simplex optical fiber cable

Ordering code:

N1xAAA	-	N2xAAA	-	XXXXXX	-	X	-	AC1XX	-	AC2XX	-	XXX

N	number of fibers (1-4 connectors)		
AAA	connector type according to CON_13-01_EN - ORD_CODE		
XXXXXX	cable and fiber type:	MB4S7A	cable, SM fiber
		MB4OM2	cable, MM fiber 50/125 µm
		MB4OM3	cable, MM fiber 50/125 µm
		MB4OM1	cable, MM fiber 62.5/125 µm
X	J	jumper, patchcord	
	P	pigtail	
ACXX	length of armouring (m)		
XXX	Total length		

Drawing multipatchcord:

Sample:
4xULC-4xUPC-MB4S7A-J-AC0,3-AC0,5-010